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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

of 3

### Complete if Known

Application Number	10/648,585
Filing Date	August 2, 2003
First Named Inventor	Datta, et al.
Art Unit	1731
Examiner Name	Queenie S. Dehghan

Attorney Docket Number 129843-1102

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/QSD/		US- 6,207,077	3/2001	Burnell-Jones	
		US- 6,048,593	4/2000	Espeland et al.	
		US- 6,034,155	3/2000	Espeland et al.	
		US- 5,967,211	10/1999	Lucas et al.	
		US- 5,858,083	1/1999	Stav et al.	
		US- 5,895,768	4/1999	Speit, Burkhard	
		US- 5,849,055	12/15/1998	Aria et al.	
		US- 5,194,334	3/1993	Uerdingen et al.	
		US- 4,983,550	1/1991	Goetz et al.	
		US- 4,871,495	10/31/1989	Helferich	
		US- 4,767,726	8/1988	Marshall	
		US- 4,602,962	7/29/1986	Fehlmann	
		US- 4,430,108	2/7/1984	Hojaji	
		US- 4,303,732	12/1981	Torobin	
		US- 4,133,854	1/9/1979	Hendricks	
		US- 4,059,423	1/22/1977	De Vos	
		US- 2,797,201	6/25/1957	Veatch et al.	
		US- 5,128,114	7/7/1992	Schwartz	
/QSD/		US- 2002/0043996 A1	2/2002	Meyer	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
/QSD/		WO 2004/101137 A1	1/25/2004	Hojaji et al.		
/QSD/		WO 2004/018090 A1	3/4/2004	Datta et al.		

Examiner Signature	/Queenie Dehghan/	Date Considered	05/16/2007
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10/648 E858

10/648,3653  
August 2, 2002

August 2, 2011

Author Datta

1731

Examiner Name \_\_\_\_\_

Attorney Docket Number 129843-1102

DOCUMENTS

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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Examiner Name	Queenie S. Dehghan

Attorney Docket Number

129843-1102

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/QSD/		P.K. KOLAY, D.N. SINGH, Physical, chemical, mineralogical, and thermal properties of cenospheres from an ash lagoon, Cement and Concrete Research, 2001, Pgs. 539-542, Vol. 31	
/QSD/		What are Cenospheres, <a href="http://www.microspheres.co.za/contents.htm">www.microspheres.co.za/contents.htm</a> , printed 7/11/2006.	
/QSD/		GUBKA, Composition and Morphology of Cenospheres Chemical & Physical Properties, <a href="http://www.atom.nw.ru/rie/projects/gubka/properties/cenospheres.shtml">www.atom.nw.ru/rie/projects/gubka/properties/cenospheres.shtml</a> , printed 7/11/2006.	
/QSD/		DROZHIN, V.S., PIKULIN, I.V., KUVAEV, M.D., REDYUSHEV, S.A., SHPIRT, M.Y., Technical Monitoring of Microspheres from Fly Ashes of Electric Power Stations in the Russian Federation, New Products 3 presentation at International Ash Utilization Symposia and the World of Coal Ash Conference, 2005, available at <a href="http://whocares.caer.uky.edu/wasp/AshSymposium/AshLibraryAuthors.asp">http://whocares.caer.uky.edu/wasp/AshSymposium/AshLibraryAuthors.asp</a>	
/QSD/		3M Material Safety Data Sheet, 3M Glass Bubbles, Types K and S, 04/10/2006, pp. 1-7.	
		Glass Corning Glass Works reprinted version of the Encyclopedia of Chemical Technology, Vol. 10, 3 pp.	
		Appl. Serial No. 11/031,406 filed by EERC - abandoned due to preliminary injunction issued in favor of James Hardie International Finance B.V.	
		Appl. Serial No. 11/031,829 filed by EERC - abandoned due to preliminary injunction issued in favor of James Hardie International Finance B.V.	

Examiner Signature	/Queenie Dehghan/	Date Considered	05/16/2007
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